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ATTACHMENT 1

Oakdale and South San Joaquin Irrigation Districts
Diversion of an Additional 700 cfs at Tulloch Dam for Power Production

ATTACHMENT NO. 1 (Applicant)

The applicants are the Oakdale Irrigation District and the South San Joaquin Irrigation Districts.

Oakdale Irrigation District
General Manager Steve Knell
1205 East F Street
Oakdale, CA 95361
Tel. 209-847-0341
Fax 209-847-3468
srknell@oakdaleirrigation.com

South San Joaquin Irrigation District General Manager Jeff Shields 11011 East Highway 120 Manteca, CA 95336 Tel. 209-249-4600 Fax 209-249-4640 jshields@ssjid.com

The assigned agent is:

Tri Dam Project
General Manager Steve Felte
P.O. Box 1158
Pinecrest, CA 95364-0158
Tel. 209-532-3838 Ext. 5
Fax 209-965-4235
sjf@tridamproject.com

Oakdale and South San Joaquin Irrigation Districts
Diversion of an Additional 700 cfs at Tulloch Dam for Power Production

ATTACHMENT NO. 2 (Project Description)

This is an application to appropriate additional water for purposes of power generation by the Tri-Dam Project of the Oakdale and South San Joaquin Irrigation Districts at their existing Tulloch facilities on the Stanislaus River. This application is based the planned installation of a third turbine/generator at the existing Tulloch Powerhouse which would take advantage of water that is currently bypassed through Tulloch in excess of the existing power facilities.

EXISTING FACILITIES

Oakdale and South San Joaquin Irrigation Districts jointly own and operate the Tulloch Project on the Stanislaus River (FERC Project No. 2067). The Tulloch Project, originally constructed in the 1950s, is located in Calaveras and Tuolumne Counties and within the Stanislaus National Forest.

The Tulloch Project consists of (1) Tulloch Dam, Spillway Intake and Reservoir, (2) Tulloch Penstock, (3) Tulloch Powerhouse, and (4) Tulloch Switchyard. Oakdale and South San Joaquin already have an appropriative water right license to generate power at the Tulloch Project. License #007860 (A013310), issued in 1953, provides for a direct diversion of not more than 1800 cfs between January 1 and December 31 each year, as well as the right to store 80,000 af between January 1 and December 31 each year.

The existing point of diversion is Tulloch Dam, a concrete gravity dam that is 200 feet high with a crest elevation of 515 feet, a crest width of 12 feet and a crest length of 1600 feet. The dam is located on the Stanislaus River at River Mile 60.2. The Tulloch Intake is located on the north side of the river, and the dimension of its two openings is 114 inches. The Tulloch Penstock is 157 feet long and has an inside diameter of 114 inches. The Tulloch Powerhouse is located at River Mile 60.2 and discharges directly into Goodwin Reservoir, located at River Mile 58.4.

AMOUNT OF WATER REQUESTED AND ITS INTENDED USE

This application is for the ability to divert an additional 700 cfs for purposes of generating power at the Tulloch Project. If approved the Oakdale and South San Joaquin Irrigation District would be able to divert a total of 2500 cfs at Tulloch for power production purposes. The need for the increase is based upon the planned modification of the existing low-level outlet valves to accommodate a third turbine/generator.

The existing unit currently diverts 1800 cfs with an electric generating capacity of 18,000 kW. Flows past Tulloch Dam often exceed this amount, particularly during the

summer irrigation season. (A copy of Figure 3.8-1 from the September 2004 Mitigated Negative Declaration and Initial Study done for the project, showing Mean Monthly Total Flows Through Tulloch Project, 1974-1999, is attached hereto). Currently, excess flows are bypassed through two low level structure bypass valves at the base of Tulloch Dam or through the gated spillway. The existing power producing facilities are hydraulically limited and their flow capacity cannot be increased absent extensive reconstruction.

Studies have shown that the two existing low level bypass valves can be adapted to permit the installation of an additional generation unit. Evaluations show that the potential gain in generation capacity and energy ranges from 5,000 to 11,000 kW, with an expected feasible gain of approximately 7,000 kW, producing 16 gigawatt hours of energy per year at a plant factor of 27 percent.

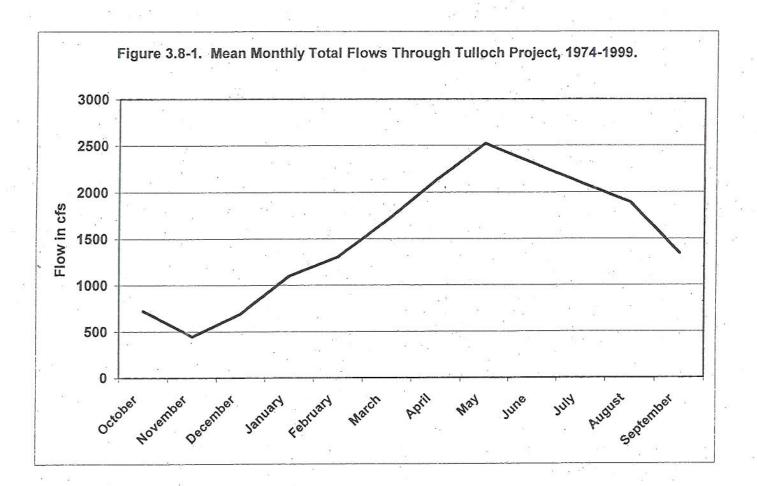
Tulloch Reservoir acts as an afterbay for New Melones Reservoir, with releases into and out of Tulloch Reservoir controlled by the United States Bureau of Reclamation. Thus, the existing power production facilities, and the proposed installation of a third turbine/generator on one of the existing outlet structures, take advantage of releases required by the United States Bureau of Reclamation from Tulloch Reservoir for irrigation demand and required releases at Goodwin Dam immediately downstream. The installation of the third turbine/generator will therefore not alter or amend the volume or timing of releases from Tulloch Reservoir.

NECESSARY CONSTRUCTION

The new facilities to be constructed include a building to house the new generator that would be located adjacent to the existing generators. A limited amount of ground disturbance will be necessary for the placement of this facility. The new generation equipment will be integrated into this building. The unit would discharge into Goodwin Reservoir, as do the existing power producing units at Tulloch, as well as the existing low level bypass valves. The existing transformer and switchyard will be modified for the placement of a transformer and switch for connection to the existing 115 kilovolt ampere electrical grid.

The construction of the new facility has begun will be accomplished by early spring of 2011. This past non-irrigation season (November 2008-February 2009), the access road was completed. These include (1) the construction of roads for access to the site across the existing spillway by placement of concrete to level portions of the spillway and grading the remaining portions, (2) excavation of material adjoining the existing generators to connect a penstock to the existing low level outlet. The remaining access road, parking area, generator building and electrical/ mechanical facilities will be constructed beginning this summer. New transformer and switch gear will be installed to accommodate the new generator.

A schematic of the additional powerplant is attached hereto.



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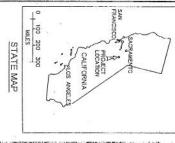
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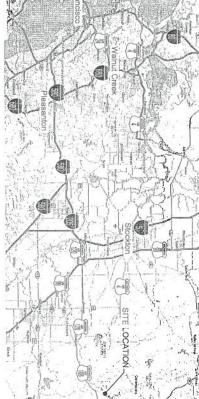
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DESIGNED.

OCATION MAP



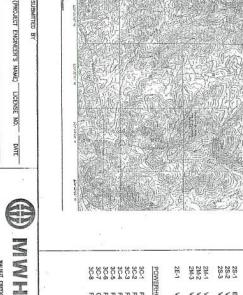












SITE WORKS DRAWINGS

MISE WALL - PANELS AND DETAILS	1C-9
MISE WALL - PLAN AND PROFILE	10%
CURVE TABLE AND COORDINATE T	10-7
DRAINAGE PROFILE	50
PARKING AREA - PLAN AND SECTIO	100
ACCESS ROAD - SECTIONS 3	í
ACCESS ROAD - SECTIONS 2	103
ACCESS ROAD - SECTIONS 1	102
ACCESS ROAD - PLAN AND PROFIL	2

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DRAINAGE PROFILE
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VALVE HOUSE AND PENSTOCK DRAWINGS

EXISTING VALVE STRUCTURE DEMOLITION

PENSTOCK EXCAVATION FLAN AND SECTIONS

PENSTOCK EXCAVATION SECTIONS

VALVE STRUCTURE AND PENSTOCK PLAN AND SECTIONS

VALVE STRUCTURE AND PENSTOCK SECTIONS

VALVE STRUCTURE DEMOLITION AND MODIFICATIONS

EXISTING VALVE STRUCTURE DEMOLITION AND MODIFICATIONS

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EXISTING VALVE STRUCTURE PLANS - ROOF AND FLOOR PLANS VALVE STRUCTURE SECTIONS VALVE STRUCTURE SECTIONS AND DETAILS VALVE HOUSE - PENSTOCK PLANS AND PROFILES VALVE HOUSE - PENSTOCK DETAILS VALVE DETAILS

25-1 25-2 25-3

VALVE HOUSE - OUTLET VALVE RELOCATION

POWERHOUSE DRAWINGS

POWERHOUSE EXCAVATION PLAN AND SECTION
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POWERHOUSE PREGROUTING AND ROCK WALL REINFORGEMENT PLAN
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PHASE 2 CONSTRUCTION

3[™] UNIT ADDITION

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PROJECT LOCATION MAPS & DRAWING INDEX PROJECT SITE PLAN STANDARD ABBREVIATIONS

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CIVIL STANDARD DETALIS. 2

CIVIL STANDARD DETALIS. 3 TYPICAL MSE WALL DETAILS

CIVIL STANDARD DETALIS. 4 TYPICAL MSE WALL TEAFFID BARRIE DETAILS

CIVIL STANDARD DETALIS. 5 TYPICAL MSE WALL DETAILS

CIVIL STANDARD DETALIS. 5 FOCK ANCHOR DETAIL

CIVIL STANDARD DETAILS. 5 FOCK ANCHOR DETAIL

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STANDARD MECHANICAL DETAILS SHEET 3
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HOUSE STRUCTURAL FOUNDATION PLAN HOUSE STRUCTURAL GENERATOR FLOOR PLAN

GEMENT ELEVATION - SHEET 1 SEMENT UPPER FLOOR PLAN
SEMENT ROOF PLAN
SEMENT SECTIONS-SHEET 1
SEMENT SECTIONS-SHEET 2

ISE STRUCTURAL UPPER FLOOR PLAN
SES STRUCTURAL ROOF PLAN
SES STRUCTURAL SECTION - SHEET 1
SES STRUCTURAL SECTION - SHEET 2
SES STRUCTURAL SECTION - SHEET 3

STANDARD ELECTRICAL ABBREVIATIONS & SYMBOLS POWER ONE LINE DIAGRAM COMMUNICATION ONE LINE DIAGRAM FOWER PANEL SCHEDULES LE & DETAILS

L SITE SECTIONS & DETAILS - SHEET 1

E SECTIONS & DETAILS - SHEET 3

DOWER & COMTROL PLAN - TURBINE FLOOR - EL 355.05

POWER & COMTROL PLAN - EN PLOOR - EL -557.50

POWER & COMTROL PLAN - UPPER FLOOR - EL -367.50

POWER & COMTROL PLAN - TUPPER FLOOR - EL -367.50

POWER & COMTROL PLAN - TUPPER FLOOR - EL -367.50

SRICULDING PLAN - TUPPER FLOOR - EL 367.50

SRICULDING PLAN - TUPPER FLOOR - EL 367.50

E GROUNDING PLAN - UPPER FLOOR - EL 387.50

- TURBINE & GENERATOR FLOOR - UPPER FLOOR & ROOF

RHOUSE MECHANICAL - TURBINE & INSTRUMENTATION FLOWSHEET

RAW WATER & FIRE PROTECTION SCHEMATIC

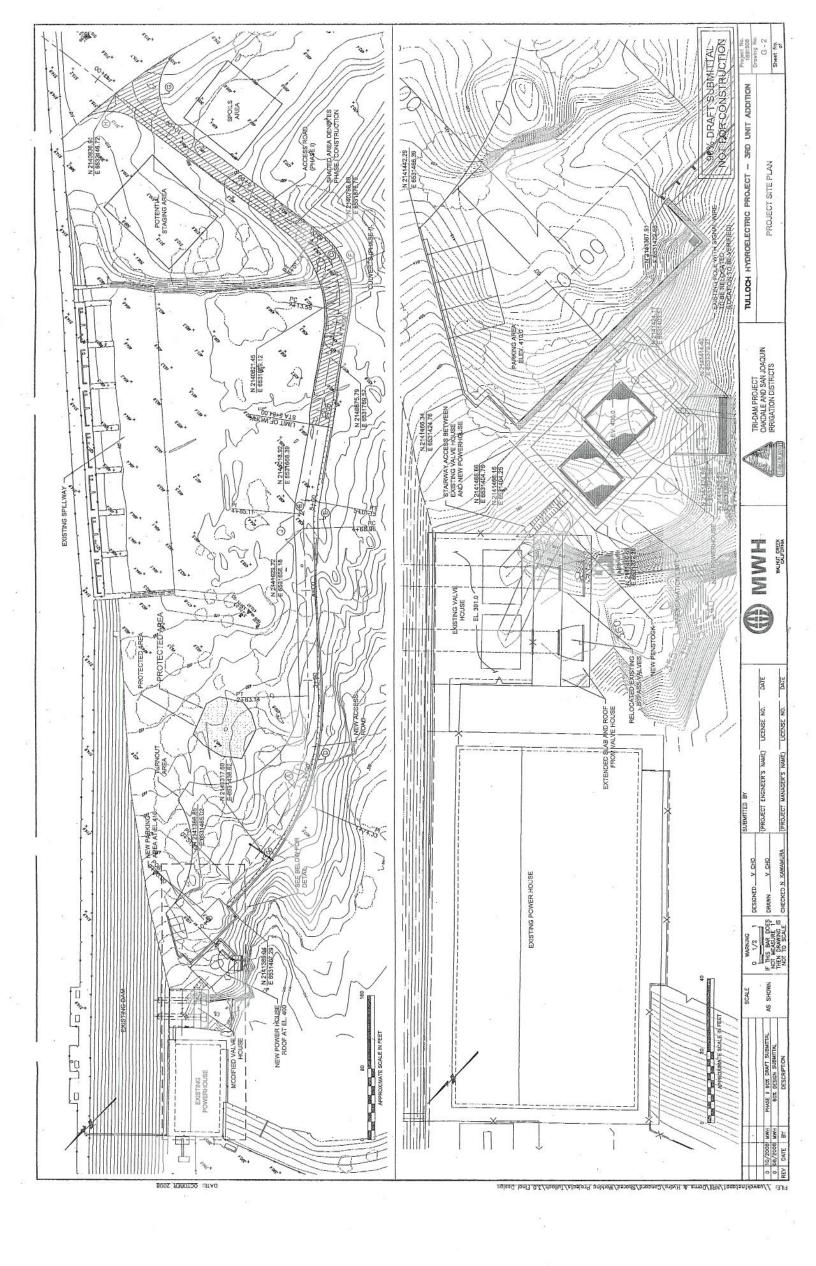
POWERHOUSE EQUIPMENT & PIPMO - TURBINE FLOOR EL 35.55
POWERH-CUSE EQUIPMENT & PIPMO - GENERATOR FLOOR EL 367.5
POWERH-CUSE EQUIPMENT & PIPMO - UPPER FLOOR EL 387.5
POWERH-CUSE EQUIPMENT & PIPMO - ENDER FLOOR EL 300.0
POWERH-CUSE EQUIPMENT & PIPMO - ROOF EL 400.0
POWERH-CUSE EQUIPMENT & PIPMO - ROOF EL 400.0
POWERH-CUSE EQUIPMENT & PIPMO - SECTIONS 2

90% DRAFT SUBMITTAL NOT FOR CONSTRUCTION

TULLOCH HYDROELECTRIC PROJECT - 3RD UNIT ADDITION

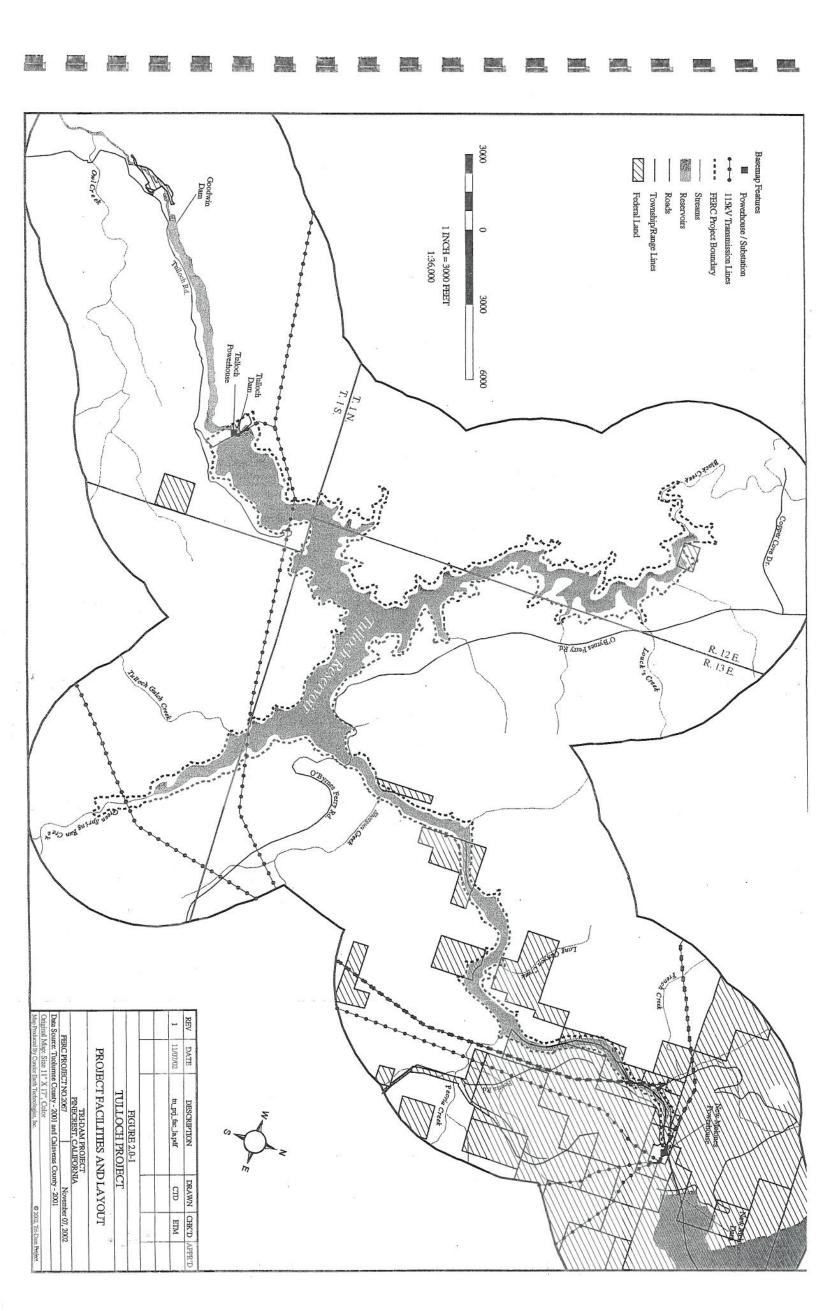
PROJECT LOCATION MAPS AND DRAWING INDEX

TRI-DAM PROJECT OAKDALE AND SAN JOAQUIN IRRIGATION DISTRICTS



2009 APR 30 AMII: 05

ATTACHMENT 3



2009 APR 30 AM II: 05

ATTACHMENT 4



County of Tuolumne Department of Public Works

PETER REI, R.C.E., P.L.S.

Director of Public Works

A.N. Francisco Building 48 West Yaney Avenue Mailing: 2 South Green Street Sonora, CA 95370

ENCROACHMENT PERMIT

Engineering Division (209) 533-5601 Road Operations Division (209) 533-5601 Transportation Division (209) 533-5603 County Surveyor Division (209) 533-5626 Solid Waste Division

PERMIT NO. DATE ISSUED: PWF2009-00003

RECEIVED

(209) 533-5588 Fax (209) 533-5698

TO:

Tri-Dam Tulloch Powerhouse Project

JAN 2 3 2009

PO Box 1158

BY. CEY

Pinecrest, CA 95364 In compliance with your request of January 19, 2009, and subject to all the terms and conditions written below and those contained in Tuolumne County Ordinance No. 263,

and Division 2, Chapters 5.5 and 6 of the California Streets and Highways Code, and any applicable C+ate Laws,

PERMISSION IS HEREBY GRANTED TO: Perform improvements within the Tuolumne County road right of way and to enhance the existing Dam access driveway in conjunction with the temporary construction activities associated with the Powerhouse improvements. APN: 63-100-07 Location: Tulloch Dam Road at the entrance to the Dam

/ Hydroelectric Plant This encroachment also will allow any signage, brush removal, stripping or shoulder

improvements.

The permittee which, with their, his or her, own Employees or Equipment performs any excavation must call the Regional Notification Center (USA North 1-800-642-2444) two (2) to fourteen (14) days in advance of excavating as set forth in Sections 4216 et seq. of the Government Code.

This permit to accomplish work which requires excavation as set forth in section 4216.9 et seq. of the Government Code shall be valid only if the applicant has been provided an initial inquiry identification number by a regional notification center pursuant to Section 4216.2.

Every precaution is to be taken to protect the safety and convenience of the traveling public at all times and the road shall remain open during all phases of the work.

The Department of Public Works shall be given two (2) days notice prior to the start of work at (209) 533-6533.

SPECIAL ATTENTION is directed to the Rules for Encroachment Permits (see attached).

This permit shall be strictly construed to authorize no work or encroachment other than that specifically mentioned above. This permit shall be void unless the work herein contemplated shall have been completed and approved before the expiration date above.

Field Inspected by: Daniel Brown

DEPARTMENT OF PUBLIC WORKS Date: 1-23-09	ACCEPTED BY:
Richard S. York R.C.E. Deputy Director, Public Works	Owner/Agent Date:
	Englopuros

RSY/em

Enclosures



County of Tuolumne Department of Public Works

Peter Rei, R.C.E., P.L.S. Director of Public Works

A. N. Francisco Building 48 West Yaney Avenue Mailing: 2 South Green Street Sonora, California 95370 Engineering and Road Operations Divisions
(209) 533-5601
Transportation Division
(209) 533-5603
County Surveyor Division
(209) 533-5626
Solid Waste Division
(209) 533-5588
Fax (209) 533-5698

NOTICE TO OWNER/CONTRACTOR AND ENCROACHMENT PERMIT HOLDER

Contractors and/or Encroachment Permit Holders whose work requires inspection and testing by County of Tuolumne Community Development Department Inspectors must give the Community Development Department at least two working days of notice. This requirement is necessary so the inspection can be properly scheduled.

Please call the 24 hour Inspection Request Line at (209) 533-6533.

The information to be provided is:

- Callers name
- 2. Project name
- 3. Project address
- 4. Type of inspection or tests requested
- 5. Call back number to confirm scheduling of inspection.

The standards for construction set forth in this permit are intended to provide a driveway or other facility which protects the safety of the owner, traveling public and road maintenance personnel and equipment. Failure to construct the driveway or other facility in accordance with this permit may result in the owners' liability for damages caused by improper construction.

If you have any questions, please call 533-5633.

Richard S. York, R.C.E.

Deputy Director of Public Works

SWT/km

A VDOCUMENT NOTICON WPD

COUNTY OF TUOLUMNE MINIMUM STANDARDS FOR ENCROACHMENT PERMITS FOR PRIVATE DRIVEWAY APPROACHES

This type of approach is required for private drives which do not serve commercial, industrial or multi-family residential development. You must apply for a permit whenever you are building or improving a driveway entrance, or if you apply for a building permit.

When the Community Development Department receives your application, one of the following determinations will be made:

- 1. An encroachment permit may not be required because your construction does not affect a county road or because a permit has already been issued. If a permit has been issued, you will be required to complete all improvements required thereon and/or a needed maintenance on the encroachment. If you believe that you do not need to apply for an encroachment permit for either these reasons, you may check with the Community Development Department before you apply for your building permit.
- 2. The permit may be issued subject to typical construction requirements and conditions. Standard typical plans appropriate for your project will accompany your encroachment permit.
- 3. An engineered encroachment plan may be required if your site does not meet the standard criteria for sight distance, sloped or because of other problems which cannot be alleviated using the County's typical plans. You will be notified if you must subnadditional information.

It is the owner's responsibility to comply with such provisions and conditions. The encroachment is not maintained in a safe condition, the permit may be revoked and the encroachment removed at the owner's expense.

All encroachments shall comply with the following standards unless, because of problems peculiar to the site, they cannot be met, which case an alternate plan for a safe encroachment, specific to the site, shall be designed by an engineer.

SIGHT DISTANCE- Stopping sight distance is measured from the driver's eyes, which are assumed to be 3.5 feet above the pavement surface, to an object 0.5 foot high on the road.

Speed limit up to	25	30	35	40	45	50	55	MPH
Sight distance minimum	150	200	250	300	360	430	500	Feet*
*20% increase		240		360				

^{*}Increase by 20% on sustained downgrade greater than 3%

ANGLE OF INTERSECTION should be as close to 90 degrees as possible. Maximum limits are 60 to 120 degrees.

WIDTH OF ENCROACHMENT - 12' TO 24'

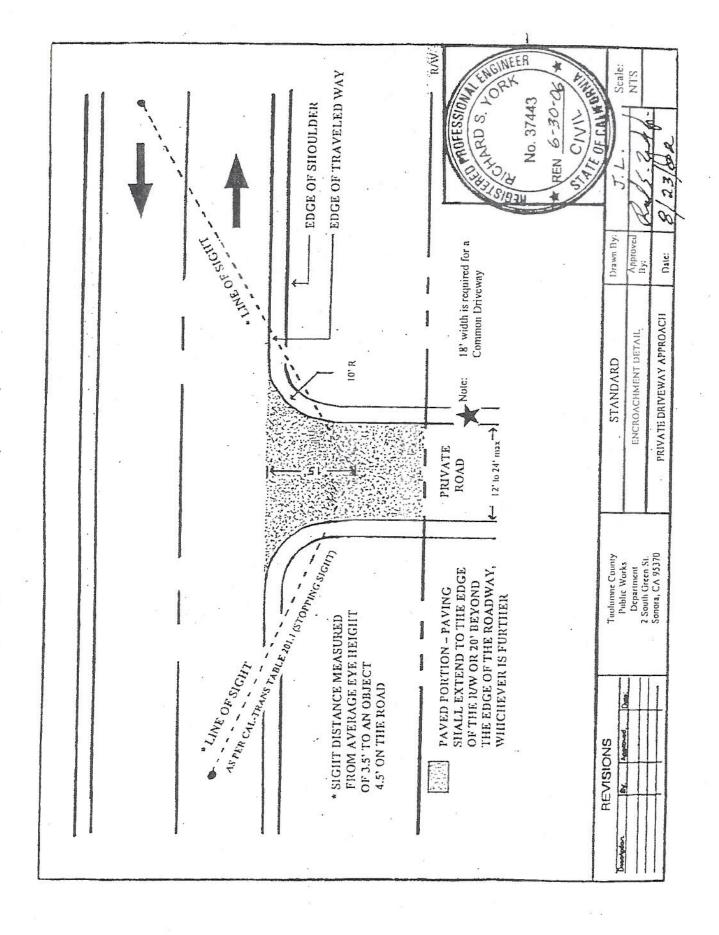
STRUCTURAL SECTION AND SURFACE MATERIAL shall consist of at least 4" of compacted class 2 aggregate base rock and 2" of type B, ½ maximum Asphalt Concrete. Where required, the paving shall extend to the edge of the right-of-way or 20' beyond the edge of roadway, whichever is further. Concrete is prohibited within 5' of the edge of roadway, unless the Department has given prior approval. Please request the use of concrete when applying for your permit.

DRAINAGE- proper drainage facilities, as shown in the typical encroachment detail attached to your permit, shall be sized to handle flow and convey water away from the County road.

County inspectors have the authority to modify these standards as appropriate to the site. Their instructions shall prevail over thes guidelines.

For further information, please contact:

Community Development Department 2 South Green Street, Sonora, CA 95370 (209) 533-5633



Tuolumne County Community Development Depart Receipt



From:

Tri-Dam Tulloch Powerhouse

DIEDE CONST. Agent:

Receipt #: 2009000086 Receipt Date: 01/20/2009

Address:

Comment: Improvements PWE2009-00003 File # 1916

Description	Base Fee	Qty Pe	Amt Pay r Qty Mth	Line Total
EncroachmentPermit residential Permit # PWE2009-00003	3.00	.4 4 = 7	/ CA	\$3.00
EncroachmentPermit residential Permit # PWE2009-00003	250.00	/ 2/°=-?	CHK	\$250.00

RECEIVED

JAN 2 3 2009

DV: CEY

Total for:

2009000086

\$253.00

Oakdale and South San Joaquin Irrigation Districts
Diversion of an Additional 700 cfs at Tulloch Dam for Power Production

ATTACHMENT NO. 5 (Permits and Approvals)

- A. The following federal and state permits and approvals have already been acquired:
 - 1. Federal Energy Regulatory Commission
 - FERC License
 - FERC Authorization to construct Phase I
 - 2. United States Army Corps of Engineers
 - Approval under Nationwide Permit No. 39 for Phase 1 construction
 - 3. California State Water Resources Control Board
 - 401 Water Quality Certification
 - Approval of Water Quality Plan for Phase 1 construction
 - Storm Water Pollution Prevention Plan for Phase 1 construction
 - Notice of Intent to comply with the terms of General Permit for Storm Water Discharges Associated with Construction Activity.
- B. The following federal and state permits and approvals still need to be acquired:
 - 1. Federal Energy Regulatory Commission
 - FERC authorization to construct Phase II
 - 2. <u>United States Army Corps of Engineers</u>
 - Approval under Nationwide Permit No. 39 for Phase 1 construction
 - 3. California State Water Resources Control Board
 - Approval of Water Quality Plan for Phase II construction
 - Storm Water Pollution Prevention Plan for Phase II construction
 - 4. California Department of Fish and Game
 - Section 1602 Lake and Streambed Alteration permit

- 5. Department of Water Resources, Division of Safety of Dams
 - Plan approval
- C. Agency Contacts
 - 1. Federal Energy Regulatory Commission
 - Mr. Stan Chew. 415-369-3394.
 - 2. United States Army Corps of Engineers
 - Ms. Kath Norton. 916-557-5260. <u>kathy.norton@usace.army.mil</u>
 - 3. California State Water Resources Control Board
 - Mr. Russ Kranz. 916-341-5341. kranz@waterboards.ca.gov
 - 4. California Department of Fish and Game
 - Ms. Julie Means. 559-243-4014. jmeans@dfg.ca.gov
 - 5. Department of Water Resources, Division of Safety of Dams
 - Mr. Dean Smith. 916-227-4623.
 - Mr. Mutaz Mihyar. 916-227-4636

Oakdale and South San Joaquin Irrigation Districts
Diversion of an Additional 700 cfs at Tulloch Dam for Power Production

ATTACHMENT NO. 6 (Erosion)

The new 7,000 kW turbine/generator would be constructed adjacent to the existing powerhouse, which was built in the 1950s. The new turbine/generator will not be located on a geologic unit or soil that is unstable or on expansive soil. The potential for soil erosion related to project operations is considered less than significant.

That said, as part of the FERC License Application, concern was expressed that shoreline erosion at Tulloch Reservoir, due to changes in water levels, could possibly affect water quality. While this concern was not directly related to the proposal to increase generation by the additional 7,000 kW, Tri Dam Project agreed to conduct erosion monitoring to avoid or mitigate for any potentially significant environmental impacts associated with erosion of the shoreline. Specifically, Tri Dam Project agreed to monitor shoreline erosion once every five (5) years, and to file a report with FERC, after consultation with the California Department of Fish and Game, State Water Resources Control Board, and Tulloch Reservoir Management Group (if formed) within 6 months after the monitoring is finished. The report shall compare the results of the current monitoring with that of any past monitoring, identify any substantial changes, recommend corrective actions, propose a schedule for implementation and evidence of consultation. It is expected that these actions will address any erosion of the Lake Tulloch shoreline, whether such erosion be caused by the proposed project or other factors.

This requirement is also identified as a specific mitigation measure (#4.6.2) in the September 2004 Mitigated Negative Declaration and Initial Study done for the project.

Further, as noted earlier, Tri Dam Project has obtained permits from the U.S. Army Corps of Engineers and State Water Resources Control Board which address and mitigate for potential erosion and discharge of sediment during the Phase 1 construction. Additional permits will be sought for the construction of Phase II.

APPLICATION TO APPROPRIATE WATER Oakdale and South San Joaquin Irrigation Districts

Diversion of an Additional 700 cfs at Tulloch Dam for Power Production

ATTACHMENT NO. 7 (Archaeology)

No cultural sites occur in the area of the new turbine/generator facility. The project will not cause an adverse change in the significance of any historical or archaeological resources, destroy any unique paleontological or geologic resources or features, or disturb any human remains.

During the preparation of the FERC License Application, extensive cultural resource studies were conducted. Those studies concluded that there are three historic sites formally determined eligible for the National Register of Historic Places (NHRP) as contributing elements of a district. Two of the 26 other recorded historic resources are considered potentially eligible for NHRP under Criterion D, with 24 sites lacking further research value. One of the eight prehistoric sites in the general project area is considered potentially eligible for NHRP based on surface observations. The other seven sites are considered potentially eligible for their research value should they contain subsurface cultural deposits. All of these sites occur on privately owned land, and none are affected by reservoir water level changes. Continuation of normal operation and maintenance of Tulloch Dam and related facilities will not affect any of these sites.

Oakdale and South San Joaquin Irrigation Districts consulted with affected Native American Tribes during the re-licensing effort, and none of the tribes identified any concerns including the continued traditional use of culturally sensitive plants in the general project area.

Nonetheless, Oakdale and South San Joaquin Irrigation Districts agreed to develop and implement a cultural resources plan to insure that no aspect of current or future operation of Tulloch Dam and related facilities, including the new power generation contemplated herein, will impact any culturally sensitive sites or resources. This plan, which was filed with FERC on July 23, 2004 after review by the State Historic Preservation Officer, the U.S. Bureau of Land Management and potentially affected Native American Tribes, is also identified as a specific mitigation measure (#4.5.2) in the September 2004 Mitigated Negative Declaration and Initial Study done for the project.

Recently, a comprehensive cultural resources study was completed by Mr. Roger Werner or Archaeological Services Incorporated. The potential sites are being documented in report form and will be verified by field surveys. These areas will be avoided to ensure that no impact occurs to any historic and/or pre-historic resources.

